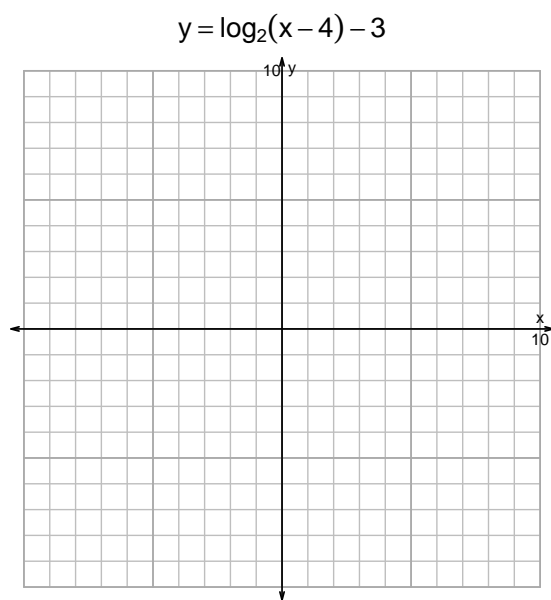
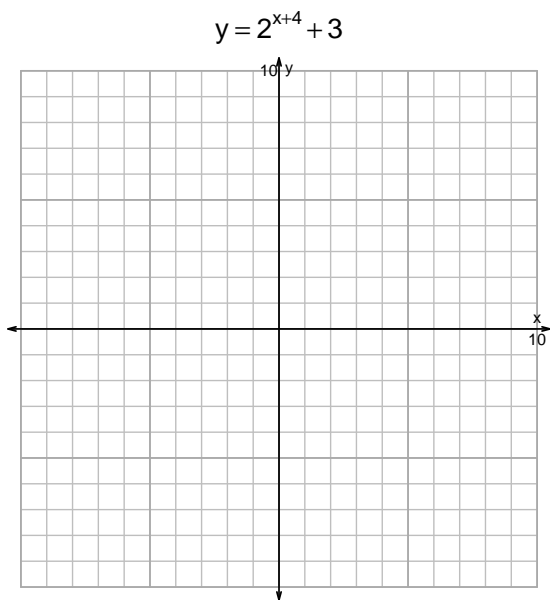


Name: \_\_\_\_\_

Date: \_\_\_\_\_

s18QUIZ: EXP LOG (QUIZ v235)

1. Graph  $y = 2^{x+4} + 3$  and  $y = \log_2(x - 4) - 3$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-29 = \left(\frac{-4}{7}\right) \cdot 10^{-5t/3}$$

3. An exponential function  $f(x) = 0.263 \cdot e^{-1.87x}$  is graphed below on a semi-log plot.



- a. Using the plot above, evaluate  $f(-2.8)$ .
- b. Express  $f^{-1}(x)$ , the inverse of  $f$ .
- c. Using the plot above, evaluate  $f^{-1}(0.009)$ .